



Dart Aerospace Ltd.
1270 Aberdeen St
Hawkesbury, ON
K6A 1K7
Canada

Tel (613) 632-5200
Fax 613 632-5246

647.2511

Job Sheet 191691



Part No: 647.2511

Job Qty: 10 pcs

Part Name: Nut



Part Weight: 0 lbs

Status: New

Priority: Medium

Job Created: 3/6/19

Job Tracking No:

Due Date: 4/4/19

Created By: Marie Lajeunesse

Type: Stock

Description:

Note: DWG 647.2500 REV.A IPP REV:A NEW ISSUE 12-10-22 JLM VERIFIED BY:DD IPP REV:B 19.02.27 AS PER
DWG REV.A DD VERF:JFS

Ship Via:

Bill of Materials

Job Routing

Op No	Operation	Qty	Start Date	Due Date	Standard		Workcenter/Supplier	Lead Time	Sign-off
					Setup Hrs	Run Hrs			
100	Doosan - 1	10 pcs	4/4/19	4/4/19	0.00	4.76	Doosan - 1		DAS 56 9-89
110	QC 2	10 pcs	4/4/19	4/4/19	0.00	0.00	QC 2 - 1		
							QC 2 - 12		
							QC 2 - 14		
							QC 2 - 17		
							QC 2 - 19		
							QC 2 - 2		
							QC 2 - 20		
							QC 2 - 22		
							QC 2 - 23		
							QC 2 - 25		
							QC 2 - 32		
							QC 2 - 33		
							QC 2 - 35		
							QC 2 - 39		
							QC 2 - 4		
							QC 2 - 40		
							QC 2 - 44		
							QC 2 - 45		
							QC 2 - 48		
							QC 2 - 49		
							QC 2 - 50		
							QC 2 - 51		
							QC 2 - 52		
							QC 2 - 54		
							QC 2 - 56		
							QC 2 - 57		
							QC 2 - 62		
							QC 2 - 63		
							QC 2 - 8		

DAS
56
9-89

Dart Aerospace Ltd.
1270 Aberdeen Street
Hawkesbury, ON K6A 1K7
CANADA
TEL: 1-613-632-5200
Email: sales@dartaero.com
www.dartaero.com



Container No: S161772
Part: 647.2511
Job No: 191691
Serial No: Batch: S161772

Revision: A
Inspector:
Exp Date:
Instructions:

Date: 03/12/19

140 QC 8	10 pcs	4/4/19	0.00 0.00	QC 2 - 66	
				QC 2 - 64	
				QC 8 - 12	03/19/03/17
				QC 8 - 14	
				QC 8 - 17	
				QC 8 - 20	
				QC 8 - 25	
				QC 8 - 3	
				QC 8 - 32	
				QC 8 - 33	
				QC 8 - 35	
				QC 8 - 39	
				QC 8 - 4	
				QC 8 - 44	
				QC 8 - 45	
				QC 8 - 49	
				QC 8 - 58	
				QC 8 - 8	
				QC 8 - 9	
				QC 8 - 68	
				QC 8 - 67	
				QC 8 - 1 (A)	
				QC 8 - 47	
				QC 8 - 40	
150 Outsource - 17 - Passivate	10 pcs	4/4/19		GRO002-VC	7 03/18/2019 PL
160 Packaging 2-1 - Receive - B4B	10 pcs 9 pcs	4/4/19	0.00 0.00	Packaging 2 - 1 - B4B	
				Packaging 2 - 2 - B4B	
				Packaging 2 - 3 - B4B	
				Packaging 2 - 5 - B4B	
				Packaging 2 - 4 - B4B	
				Packaging 2 - 6 - B4B	
				Packaging 2 - 7 - B4B	
				Packaging 2 - 8 - B4B	
				Packaging 2 - 9 - B4B	
				Packaging 2 - 10 - B4B	
				Packaging 2 - 11 - B4B	
				Packaging 2 - 12 - B4B	
				Packaging 2 - 13 - B4B	MAR 26 2019
				Packaging 2 - 14 - B4B	
				Packaging 2 - 15 - B4B	
				Packaging 2 - 16 - B4B	
				Packaging 2 - 17 - B4B	
				Packaging 2 - 18 - B4B	
				Packaging 2 - 19 - B4B	
				Packaging 2 - 20 - B4B	
				Packaging 2 - 21 - B4B	
				Packaging 2 - 22 - B4B	
				Packaging 2 - 23 - B4B	
				Packaging 2 - 24 - B4B	
				Packaging 2 - 25 - B4B	
				Packaging 2 - 26 - B4B	
				Packaging 2 - 27 - B4B	
				Packaging 2 - 28 - B4B	
				Packaging 2 - 29 - B4B	
				Packaging 2 - 30 - B4B	
				Packaging 2 - 31 - B4B	
				Packaging 2 - 32 - B4B	
				Packaging 2 - 33 - B4B	
				Packaging 2 - 34 - B4B	

170 QC 5	10 pcs	4/4/19	0.00 0.00	Packaging 2 - 35 - B4B	
				Packaging 2 - 36 - B4B	
				QC 5 - 10	
				QC 5 - 12	
				QC 5 - 17	
				QC 5 - 18	
				QC 5 - 19	
				QC 5 - 22	
				QC 5 - 24	
				QC 5 - 3	
				QC 5 - 42	
				QC 5 - 43	
				QC 5 - 49	
				QC 5 - 51	
				QC 5 - 58	
				QC 5 - 68	
				QC 5 - 9	
				QC 5 - 50	
				QC 5 - 30	
180 Packaging 3-1 - Stock - B4B	10 pcs	4/4/19	0.00 0.00	Packaging 3 - 1 - B4B	
				Packaging 3 - 2 - B4B	
				Packaging 3 - 3 - B4B	
				Packaging 3 - 4 - B4B	
				Packaging 3 - 5 - B4B	
				Packaging 3 - 6 - B4B	
				Packaging 3 - 7 - B4B	
				Packaging 3 - 8 - B4B	
				Packaging 3 - 9 - B4B	
				Packaging 3 - 10 - B4B	
				Packaging 3 - 11 - B4B	
				Packaging 3 - 12 - B4B	
				Packaging 3 - 13 - B4B	
				Packaging 3 - 14 - B4B	
				Packaging 3 - 15 - B4B	
				Packaging 3 - 16 - B4B	
				Packaging 3 - 17 - B4B	
				Packaging 3 - 18 - B4B	
				Packaging 3 - 19 - B4B	
				Packaging 3 - 20 - B4B	
				Packaging 3 - 21 - B4B	
				Packaging 3 - 22 - B4B	
				Packaging 3 - 23 - B4B	
				Packaging 3 - 24 - B4B	
				Packaging 3 - 25 - B4B	
				Packaging 3 - 26 - B4B	
				Packaging 3 - 27 - B4B	
				Packaging 3 - 28 - B4B	
				Packaging 3 - 29 - B4B	
				Packaging 3 - 30 - B4B	
				Packaging 3 - 31 - B4B	
				Packaging 3 - 32 - B4B	
				Packaging 3 - 33 - B4B	
				Packaging 3 - 34 - B4B	
				Packaging 3 - 35 - B4B	
				Packaging 3 - 36 - B4B	
190 QC 21 - SA	10 pcs	4/4/19	0.00 0.00	QC 21 - SA - 21	
				QC 21 - SA - 70	
				QC 21 - SA - 53	

DAS

APR 01 2019 68
9-89

APR 02 2019

DAS
21 APR 02 2019

Part Op 100 - (Doosan Lathe) 1- Turn as per Folio FB144 AND DWG DWG Rev: _____ FOLIO Rev: _____ -Deburr per dwg

Plex 3/6/19 12:35 PM Dart.lajeunesse.marie

Descriptions: ***CHECK THREADS USING GO/ NO GO GAUGE*****

110 - (QC2- Inspect parts off machine FAI/FAIB)

140 - (QC8- Inspect parts - second check) 100% CHECK,CHECK ALL DIMENSIONS AND THREAD FIT

150 - Issue P/O: _____ Pasivate as per MIL-S-5002 TYPE 6 Certificate of conformity is required

160 - (Receive & Inspect for Damage & Mat'l Certs) Ensure certificate of conformity is attached

170 - (QC5- Inspect part completeness to step on W/O)

180 - (Identify as per dwg & Stock Location: _____)

190 - (QC21- Final Inspection - Work Order Release)

Job BOM

Part / Item	Component Name	Quantity	Operation	Container
M17-4-H1150-R1.000	17-4 SS Round Bar 1.000"	.5000 ft (.05 ea)	100-Doosan - 1	M126689

.6560" USED

Job Allocations

Operation	Component Part	Required	Inventory	Allocated
100-Doosan - 1	M17-4-H1150-R1.000	1	2	0

Part Specifications

Spec No	Description	Target/Tolerance	Limits	Type	Special Comments
1	Nut	0.875Inches $\pm$ 0.010	0.885 0.865		
2	Nut	0.530Inches $\pm$ 0.010	0.540 0.520		
3	Nut	90.000Degrees $\pm$ 0.500	90.500 89.500	Angle	
4	Nut	0.660Inches $\pm$ 0.010	0.670 0.650		
5	Nut	0.130Inches $\pm$ 0.010	0.140 0.120		
6	Nut	0.580Inches $\pm$ 0.002	0.582 0.578		
7	Nut	0.590Inches $\pm$ 0.010	0.600 0.580		

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Entered: _____ Date: _____



WORK ORDER NON-CONFORMANCE / ROUTE UPDATE

NCR No. _____

Route update only ☐

Job: _____ Part No. _____	DISPOSITION Rework ☐ Scrap ☐ Use-as-is ☐	DEPARTMENT/PROCESS Skid-tube ☐ Machining ☐ Large Fab ☐ Cross tube ☐ Small Fab ☐ Finishing ☐ Eng. (Non-AW) ☐ Prod. Eng. Coord. ☐ Rec/Store/Packaging ☐ Engineering ☐ Water Jet ☐ Supplier ☐ Quality ☐			
Date :	Sequence #:	QTY Affected :		MRB (QSI042)	
Description Work Order Deviation		Disposition		Completed By	
				Lead hand / Supervisor	
Root Cause Operator ☐ Manufacturing Process ☐ Equip/Tooling ☐ Handling/Preservation ☐ Material ☐ Product Improvement ☐ Process Improvement ☐ Human Factors ☐		FAULT CATEGORY ☐ Pressure/Forced ☐ Bending ☐ Crushing ☐ Cracks ☐ Crimp/Kink/Ripple/Wave/Twist ☐ Marks/Chatter ☐ Mislabeled ☐ Contamination ☐ Misaligned/off center ☐ BOM/Route ☐ Broken/Damage/Defect ☐ Incomplete/Unclear Instructions ☐ Drill Holes ☐ Fit/Function ☐ Power Loss/Surge ☐ Folio/Program ☐ Grain Direction ☐ Weld ☐ Wrong Stock Pulled ☐ Out of Sequence ☐ Off-set/Set-up ☐ Positioned Wrong ☐ Outside Tolerance ☐ Drawing ☐ Finish ☐ Part Lost/Missing ☐ Misread			
Other/Details:					



Dart Aerospace Ltd.
1270 Aberdeen St
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K6A 1K7
Canada

Tel (613) 632-5200

PURCHASE ORDER

PO042909



Supplier: GRO002-VC
Group Altech
2455 Halpern
St Laurent
QC
H4S 1N9 Canada
Phone: 514-335-3666
Fax: 514-335-3868

Attention: Grenon, Sylvie

Ship To: 1270 Aberdeen Street
Hawkesbury
ON
K6A 1K7 Canada
Phone: 613-632-5200

PO No: PO042909

PO Date: 3/18/19

Due Date: 3/25/19

Purchase Order

Revision:

Revision Date:

Ship-To Contact: Phone:

Via: Ground

Pymt Terms: Net 60

Freight Terms:

Special Comments:

Items

Line Item	Job	Part	Description	Status	Account	Due Date	Order Quantity	Received Quantity	Balance	Unit Price (CAD)	Extended Price
1	191691	647.2511	Nut Issue P/O: _____ Pasivate as per MIL-S-5002 TYPE 6 Certificate of conformaty is required	Firmed - X9		3/25/19	9 pcs	0 pcs	9 pcs	\$11.11/pcs	\$99.99
											Grand Total: \$99.99

Order Notes

Procurement Quality Clauses
A005 right of entry
A012 chemical and physical test report
A016 personnel qualification
A017 raw material identification (as applicable)

A022 Apical Processing
A024 process certifications
A026 certification of material conformance

A041 quality management system
A042 dart notification by supplier
A043 retension of quality documents

A048 counterfeit parts avoidance, detection, mitigation and disposition program

A049 supplier awareness

Terms & Condition of Purchasing(Suppliers) and Procurement Quality Clauses are an integral part of our AS9100 requirements. To learn in detail, please visit www.dartaerospace.com for further explanation.

Plex 3/19/19 11:26 AM dart.Lussier.Patrick



Certificat de Conformité / Certificate of Compliance

(017759-1)

2455, Rue Halpern | Saint-Laurent | Québec | H4S 1N9
 Tel: 514-335-3666 Fax: 514-335-3868
 www.groupealtech.com

Bon de Livraison / Packing Slip

017759- 1

Livré à / Ship to

DART AEROSPACE LTD

1270 ABERDEEN STREET

HAWKESBURY, ON, K6A1K7

CANADA

Tel.: 613-632-5200 Fax.:

Client / Customer:

DART AEROSPACE LTD

1270 ABERDEEN STREET

HAWKESBURY, ON, K6A1K7

CANADA

BUYER:

Date expédition Ship date		Créé Par Generated By	Transport / No de Compte Courier / Acc. No.	Bon de commande Client Customer Purchase Order No.					
25-Mar-2019		Jessie Boisvert		PO042909					
#Ligne Line#	No. de Série / # Pièce Part Number / Line Item Details	Description pièce(s)	CATG. U/M	Comm. /Ordered	Exp/ Shipped	Qté NC/ NC Qty	Qté Scrap/	À venir/ Back Order	
1	647.2511 Rev.	647.2511 01 -PASSIVATION-BICHROMATE [PASSIVATION BICHROMATE] TEST ONE PART FIRST REF:-PASSIVATION ASTM A380-PASSIVATION AMS 2700/QQ-P-35, PASSIVATION ASTM A967. Precleaning with rags and solvent if required remove any markings, paintor and heavy contaminints. TERRY LINE	PASSIVATION CH	9	9	0	0	0	

Notes Additionnelles / Additional Notes

Epaisseur réelle
Actual Thickness

Inspecteur Qualité
Quality Inspector

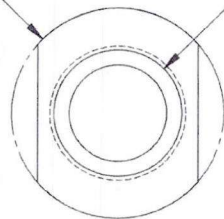
Réçu par
Received By

Nous certifions que les pièces énumérées ci-dessus ont été traitées en conformité avec votre commande et vos spécifications et rencontrent les exigences.
 Notre responsabilité financière et légale ne sera pas supérieure au montant de la facture issue.

We hereby certify that the parts listed above have been process in accordance with your purchase order and specifications and are in conformance with your requirements.
 Our financial and legal responsibility will not be higher than the amount of invoice.

THE INFORMATION CONTAINED IN THIS DRAWING IS THE SOLE PROPERTY OF
APICAL INDUSTRIES ANY REPRODUCTION IN PART OR WHOLE WITHOUT
THE WRITTEN PERMISSION OF APICAL INDUSTRIES IS PROHIBITED.

Ø.875



Ø.401 DRILL & TAP M11 X ~~0.75~~ THRU
✓ Ø.53 X 90°

0.45

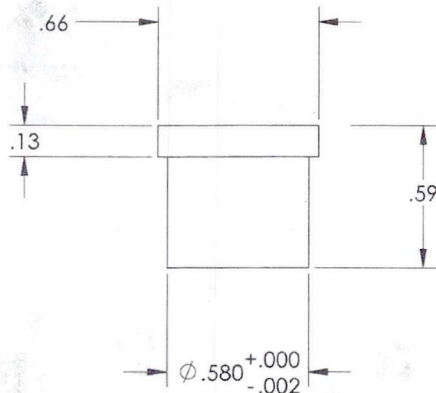


647.2511

Salut Dave!
Il faut faire les threads
à M11 x 0.75 pour ce w/p
seulement

9 morceaux, pas un de plus ni
1 de moins.

G.A 19-03-06



Ø.580^{+.000}_{-.002}

ORIGINAL DATE (MO-DAY-YR) 06-04-09		APICAL INDUSTRIES	
DRAWN BY J. GARDNER	CHECKER J. BRAVO	2608 TEMPLE HEIGHTS DR. OCEANSIDE, CA. 92056-3512 (760) 724-5300	
DRAWING APPROVAL F. BRAVO		SKID SLEEVE	
CONTRACT No.			
UNLESS OTHERWISE SPECIFIED DIMENSIONS ARE IN INCHES TOLERANCES ARE 2 PLACE DECIMALS ±.01 3 PLACE DECIMALS ±.005 ANGLES ± .5°		SIZE B	REV. A
		CAGE CODE 07M26	DWG. NO. 647.2500
		SCALE: NONE	SHEET 2 OF 2

647.2511

w/p # 191691